

Translation

PATENT COOPERATION TREATY

530,18
PCT/JP2003/012899



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference DK-224-PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/012899	International filing date (day/month/year) 08 October 2003 (08.10.2003)	Priority date (day/month/year) 08 October 2002 (08.10.2002)
International Patent Classification (IPC) or national classification and IPC C08J 5/18, C08L 53/02, B29C 61/06, B32B 27/28 // C08L 53:02, B29K96:04, B29K25:00, B29L7:00 (C08L53/02, C08L25:04)		
Applicant DENKI KAGAKU KOGYO KABUSHIKI KAISHA		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:
 - ☒ Box No. I Basis of the report
 - ☐ Box No. II Priority
 - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☐ Box No. IV Lack of unity of invention
 - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - ☐ Box No. VII Certain defects in the international application
 - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 04 March 2004 (04.03.2004)	Date of completion of this report 30 June 2004 (30.06.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012899

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ The international application as originally filed/furnished

☐ the description: _____, as originally filed/furnished

pages _____

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ the claims: _____, as originally filed/furnished

pages _____

pages* _____, as amended (together with any statement) under Article 19

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ the drawings: _____, as originally filed/furnished

pages _____

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

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International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-29	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-29	NO
Industrial applicability (IA)	Claims	1-29	YES
	Claims		NO

2. Citations and explanations

- Document 1: WO 02/38642 A1 (Denki Kagaku Kogyo KK), 16 May 2002
- Document 2: JP 10-058540 A (Asahi Chemical Industry Co., Ltd.), 3 March 1998
- Document 3: JP 07-032468 A (Toyobo Co., Ltd.), 3 February 1995
- Document 4: JP 07/020785 A (Toyobo Co., Ltd.), 24 January 1995
- Document 5: JP 09-286884 A (Asahi Chemical Industry Co., Ltd.), 4 November 1997
- Document 6: JP 06-023820 (Sumitomo Chemical Co., Ltd.), 1 February 1994

Claims 1-29 do not involve an inventive step in the light of documents 1, 2 and 3-6, cited in the international search report. Documents 1 and 2 present heat-shrinkable films for labels, constituted from a resin composition which contains a styrene polymer and a block copolymer formed from an aromatic vinyl compound and a conjugated diene, and indicate that the values for percentage heat shrinkage thereof are of the same order as in claim 1 in the present application and that the values for the loss tangent in the spectrum of dynamic visco-elasticity are similar to those in claims 3 and 4 in the

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present application. Documents 3 and 4 present the use of syndiotactic polystyrene in order to confer properties such as good heat shrinking and heat resistance on heat-shrinkable film constituted from a resin composition which includes a styrene polymer. Therefore, a person skilled in the art could easily conceive of using syndiotactic polystyrene disclosed in documents 3 and 4 as the styrene polymer in documents 1 and 2. In addition, as indicated in documents 1, 5 and 6, acrylate compounds, phosphorus compounds and phenol compounds are known as stabilizers for styrene polymers; and foaming of the film is also a suitable option available to a person skilled in the art, as indicated in document 6. Moreover, the constitution of the inventions in the present application does not appear to offer any specially marked effect compared with the properties, etc., of the films disclosed in document 1.